

How to Implement Successful Inspections and Corrective Actions into your Project



Objectives

- Understand inspection requirements – tips and tricks
- Know the requirements of a Corrective Action Report

Site Inspections

- Employee
- Third Party Member (consultant)
- “Qualified Person”
 - Knowledgeable in the principles and practice of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.



Frequency of Inspections

- At least once every 7 calendar days;
- Once every 14 calendar days and within 24 hours of a storm event 0.25" or greater
- Inspections during project's normal working hours

Quick Tips- Pick the every 7 days option and complete it on a Wednesday to avoid most holidays

Frequency of Inspections (cont.)

- Storm Event Greater than 0.25”
 - Properly maintained rain gauge on site; or
 - Use weather station representing your location (<http://www.noaa.gov>)
 - Always record total rainfall measured greater than 0.25” during normal business hours
 - Conduct inspection within 24 hours once the storm accumulates 0.25” and within 24 hours after the end of the storm



Quick Tips- Purchase an electronic rain gauge that sends you info to your computer or phone

Stabilized Areas

- Reduce inspections to once per month
- Initial stabilization as soon as practicable, but no later than 14 calendar days
 - Vegetative stabilization
 - Non-vegetative stabilization
- Normal inspection frequency if construction activity resumes
- Document beginning & ending dates

Quick Tips- Use your outlook calendar for reminders
– and have your backup person on the calendar invite



Drought Safety

Monitoring,
Forecasts

Take Action

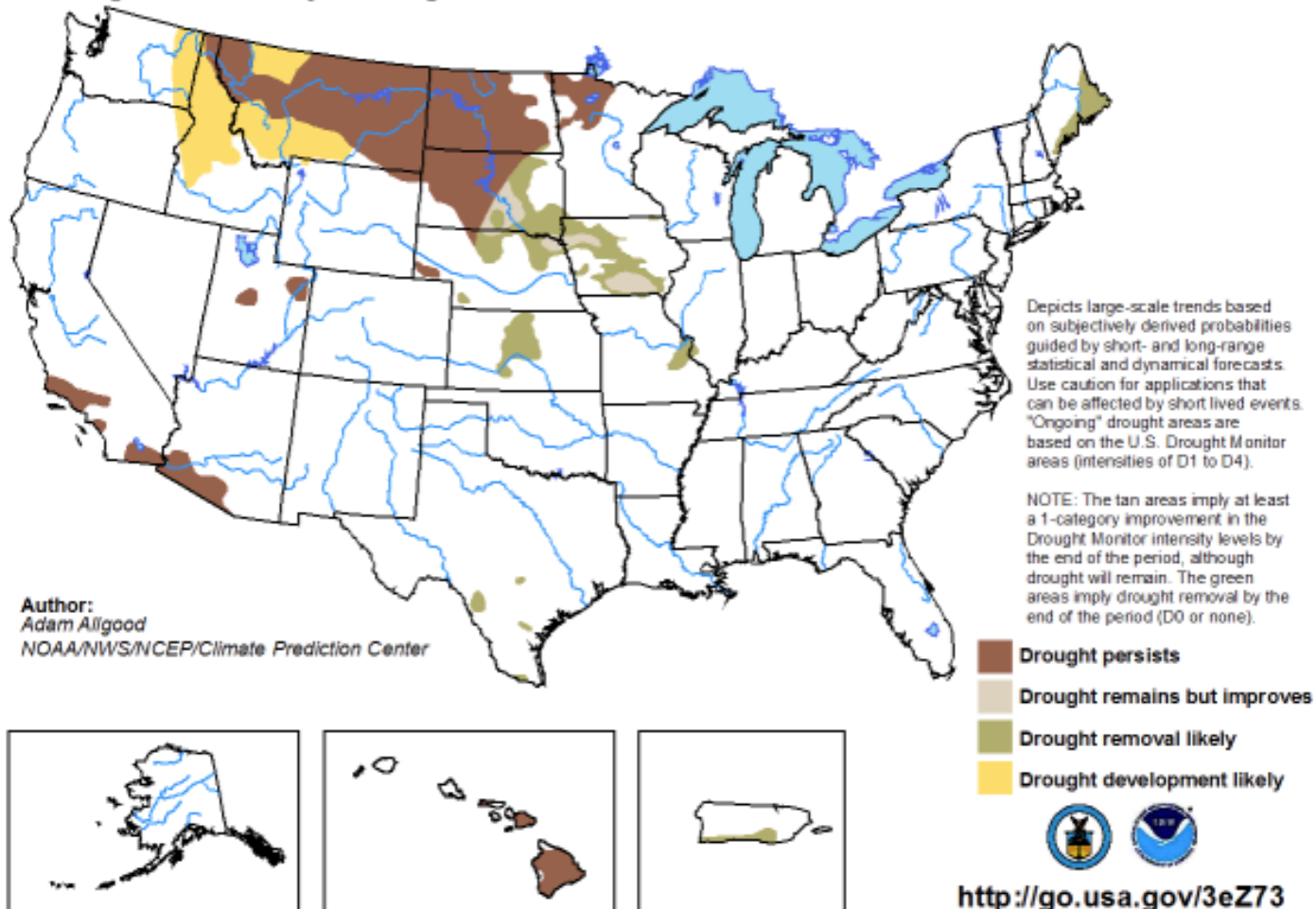
Drought Impacts

Types of Droughts

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for August 17 - November 30, 2017
Released August 17, 2017



Areas that Need to be Inspected

- Cleared, graded, or excavated areas
- Stormwater controls
- Material, waste, borrow, equipment storage, and maintenance areas
- Receiving waters
- Point source discharges
- Concrete washouts
- Locations where stabilization measures have been implemented
- Sanitary Waste (Blue rooms) are secure

Quick Tips- Carry your site map from the SWPPP around with you to ensure you inspect all the BMPs and you can update the map in the field

Inspection Requirements

- Erosion and sediment controls appear to be operational
- Determine if any controls need to be replaced, repaired, or maintained
 - Initiate work to fix the problem immediately and complete by close of next work day
 - For significant repairs complete within 7 calendar days unless infeasible
 - If infeasible, document reasoning and complete as soon as practicable



Inspection Requirements (cont.)

- Spills, leaks, other pollutant accumulations
- Identify locations needing stormwater controls
- Signs of visible erosion and sedimentation within your property or immediately adjacent to your property
- If a discharge is occurring:
 - Identify all points of discharge
 - Observe and document the visual quality
 - Are stormwater controls effective?



Inspection Report

Quick Tips- Electronic Solutions for Inspections

- Complete within 24 hours of inspection
 - Rain gauge or weather station (rain event)
 - If unsafe to inspect, document reasoning
- Maintain records for duration of 5 years past permit expiration or coverage is terminated (electronic is acceptable)

Daily Environmental Inspection Report			
INSPECTOR: Chris Leahy		WEATHER: Mostly cloudy, high temperature in the low 50's.	
DATE: Saturday, December 02, 2017		PRECIPITATION: 0.00 inches	
AREAS MONITORED:		<input checked="" type="checkbox"/> Terminal <input checked="" type="checkbox"/> Offsite Area A <input type="checkbox"/> Offshore Platform	
Site Conditions:		Comments:	
E&S controls installed per plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
E&S controls properly maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Sediment ponds/traps clean and functional?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Stockpiles contained and/or stabilized?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Construction activity within permitted LOD?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Site graded to manage stormwater runoff?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Site free of trash and debris?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Proper fuel and oil storage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Visual inspection of construction equipment?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Concerns with water body crossings?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
DETAILED INSPECTION ACTIVITIES:			
<p>LNG Terminal: Performed routine weekly stormwater inspection focusing on erosion and sediment (E&S) controls along the site perimeter and at basins and outfalls. No compliance issues were observed. Inspected submerged gravel wetlands under active construction throughout the site. Inspected the permanent vegetative re-stabilization and installation of silt fence behind the southwest portion of the sound wall that was completed yesterday. Monitored vegetative re-stabilization of the slopes and floor of Basin 2; no new growth was observed.</p> <p>Offsite Area A: Performed routine weekly stormwater inspection. Inspected E&S controls at sediment basins, outlet structures, and around soil stockpiles. No compliance issues were observed. Performed inspection of the E&S controls surrounding the bottomless arch culvert; no issues were observed.</p> <p>Offshore Platform: No inspection performed.</p>			
BMP ACTION REQUIRED?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
PROBLEM AREA/ NON-COMPLIANCE?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
AGENCY INSPECTION?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
ADDITIONAL COMMENTS:			

Successful Inspections

- Tips for inspections
- Documentation – don't save to your laptop!
- Marking in the field
- Photo taking
- Corrective actions





Corrective Actions



Corrective Actions Defined

- Repair, modify, or replace stormwater controls
- Clean up and properly dispose of spills, releases, other deposits
- Remedy a permit violation



Corrective Actions Defined

- “Immediately”

Quick Tips- you should always have corrective photos to showcase your fix



Corrective Actions

- Identification
- Tracking action items
- Assigning actions for completion
- Supporting close out of actions: materials, QA/QC
- Record action close out (documentation!!!)
- Schedule follow-ups
- Maintain!

Quick Tips- use your outlook calendar to set alerts to ensure the actions are closed out in the correct time frame

Requirements

- Install new or modified control no later than 7 calendar days from discovery:
- Modify SWPPP within 7 calendar days
- Comply with any HI DOH/EPA corrective actions



Recordkeeping Requirements

- Keep all corrective action reports at the site
- Electronically is acceptable
- Retain for minimum 5 years from permit expiration

Corrective Actions – Cheat Sheet

- Complete a Corrective Action Report within **7 days** of discovery of major problems
- Photos to show your fix
- Maintenance of erosion & sediment controls **does not** require Corrective Action Report
- If your site discharges to an impaired water and water quality standards are exceeded, contact your manager immediately

